

**COCKPIT CHECKS**

1. Canopy - OPEN
2. Main switch panel - ALL OFF
3. BATTERY switch - ON
4. Rear cockpit NETWORK switch - FWD
5. Rear cockpit landing gear selector - NEUTRAL
6. Oxygen supply - ON
7. Fuel cutoff lever - ON and GUARDED
8. PITOT HEAT switches - OFF
9. BRAKE lever -- EMERGENCY (full backwards)
10. Instrument lights - AS REQD
11. LND LIGHTS switch - OFF
12. Landing gear selector - DOWN
13. G-meter - RESET
14. Altimeter - SET
15. Radar altimeter - SET DH
16. ANTI-ICE switch - OFF
17. PRESS SEAL lever - OFF
18. NAV LIGHTS switch - OFF
19. Hydraulic emergency levers - ALL FWD

**BEFORE START CHECKS**

1. HYD SYS FAIL light - ON
2. GENERATOR light - ON
3. DON'T START light - ON
4. EMERGENCY GENERATOR light - ON
5. CANOPY UNLOCKED light - ON
6. INV 36V FAIL light - ON
7. ENG MIN OIL PRESS light - ON
8. AIRCOND OFF light - ON
9. ENG INST switch - ON
10. DON'T START light - OFF
11. INV 36V FAIL light - OFF
12. Fuel quantity - CHECK
13. Throttle - IDLE
14. Voltmeter - 22V MIN
15. Aft canopy - CLOSED/LOCKED

**ENGINE START CHECKS**

1. BEACON switch - ON
2. Turbine start button - PRESS
3. TURBINE STARTER light - ON in 25 seconds
4. Engine start button - PRESS
5. RPM/Oil pressure/EGT - MONITOR
6. TURBINE STARTER light - OFF
7. Oil pressure - CHECK
8. HYD SYS FAIL light - OFF
9. ENG MIN OIL PRESS light - OFF

**AFTER START CHECKS**

1. GEN MAIN switch - ON and GENERATOR light OFF
2. GEN EMER switch - ON and EMERGENCY GENERATOR light OFF
3. INVERTER switches - ON
4. Canopy - CLOSE/LOCK
5. CANOPY UNLOCKED light - OFF
6. PRESS SEAL level - FWD
7. AIRCOND OFF light - OFF
8. DE-ICE switch - ON
9. AVIONICS switch - ON
10. GNS 430 switch - ON
11. RADAR ALT switch - ON
12. TANKS switch - ON
13. GYROS switch - ON
14. ANTI ICE switch - AS REQD

**TAXI CHECKS**

1. Flight controls operation - CHECK
2. Flaps operation - CHECK
3. Speed brake operation - CHECK and CHECK LIGHT
4. Brakes - CHECK
5. Voltmeter - 28V
6. Hydraulic pressure - 135-150 KP/CM2
7. Radios/NAV/GPS - SET and CHECK
8. LND LIGHTS switch - ON
9. NAV LIGHTS switch - ON

**BEFORE TAKEOFF CHECKS**

1. Trim - SET
2. Speed brakes - CHECK IN
3. Flaps - SET TAKEOFF
4. Fuel quantity - CHECK
5. Flight and engine instruments - CHECK
6. Oxygen supply - ON
7. Warning lights - ALL OFF
8. PITOT HEAT switches - ON
9. STROBES switch - ON

**TAKEOFF CHECKS**

1. Brakes - ON
2. Throttle - FULL FWD
3. Brake release - 106% N1 RPM
4. Rotate - 160 KM/H
5. Positive rate of climb - GEAR UP AT 220 KM/H
6. Flaps - UP AT 250 KM/H
7. Trim - AS REQD
8. Inside airspace - 370 KM/H
9. Below 10,000 MSL - 460 KM/H

**CLIMB CHECKS**

1. Throttle - 103% N1 RPM
2. Best angle of climb - 300 KM/H
3. Best rate of climb - 390 KM/H
4. LNDG/TAXI light switches - OFF AT 10,000 MSL
5. Altimeter - SET 29.92 AT 18,000 MSL
6. EGT - MONITOR

**CRUISE 15 MINUTE CHECKS**

1. Fuel quantity - CHECK
2. Engine instruments - CHECK
3. Oxygen - CHECK ABOVE 6,000 MSL
4. High speed cruise - 103% N1 RPM
5. Standard cruise - 96-99% N1 RPM
6. Max endurance cruise - 85-90% N1 RPM

**DESCENT CHECKS**

1. Fuel quantity - CHECK
2. Engine instruments - CHECK
3. Standard descent - 85%N1 RPM AT 450 KM/H
4. Max range descent -- 56% N1 RPM AT 185 KM/H
5. Max glide engine out - 290 KM/H
6. Altimeter - SET LOCAL AT 18,000 MSL
7. LND LIGHT switch - ON AT 10,000 MSL
8. Below 10,000 MSL - 460 KM/H
9. Inside airspace - 370 KM/H

**APPROACH CHECKS**

1. Fuel quantity - CHECK
2. Warning lights - ALL OFF
3. Hydraulic pressure - 135-150 KP/CM2
4. Airspeed - 450 KM/H
5. Throttle - 85% N1 RPM
6. Speed brake - AS REQD
7. Descend -- IAF or PATTERN ALTITUDE

**TRAFFIC PATTERN CHECKS**

1. Landing gear selector - DOWN SLOWER THAN 300 KM/H
2. Flaps - SET TAKEOFF
3. Speed brake - IN
4. Airspeed - 280 KM/H
5. Throttle - 81-87% N1 RPM

**FINAL APPROACH CHECKS**

1. Flaps - SET LANDING
2. Airspeed - 230 KM/H
3. Throttle - APPROX 81% N1 RPM
4. Landing gear lights - CHECK GREEN
5. Threshold airspeed - 200 KM/H
6. Flare - AT 25 FT AGL
7. Touchdown speed - 180 KM/H

**MISSED APPROACH CHECKS**

1. Throttle - FULL FWD
2. Speed brake - IN
3. Flaps - SET TAKEOFF
4. Rotate - 150 KM/H
5. Positive rate of climb - GEAR UP AT 220 KM/H
6. Flaps - UP AT 250 KM/H
7. Trim - AS REQD
8. Airspeed - 350 KM/H
9. Throttle - APPROX 90% N1 RPM

**AFTER LANDING CHECKS**

1. LND LIGHTS switch - AS REQD
2. Flaps - UP
3. Speed brake - IN
4. ANTI ICE switch - OFF
5. PITOT HEAT switches - OFF

**ENGINE SHUTDOWN CHECKS**

- 1. BRAKE lever -- EMERGENCY (full backwards)**
- 2. Throttle - IDLE 2 MINS**
- 3. PRESS SEAL lever - OFF**
- 4. Avionics - ALL OFF**
- 5. Electrical switches -- OFF EXCEPT BATTERY AND ENG INST**
- 6. Fuel cutoff level -- FULL BACK**
- 7. ENG INST switch - OFF**
- 8. BATTERY switch - OFF**
- 9. Canopy - OPEN**
- 10. Oxygen supply - OFF**